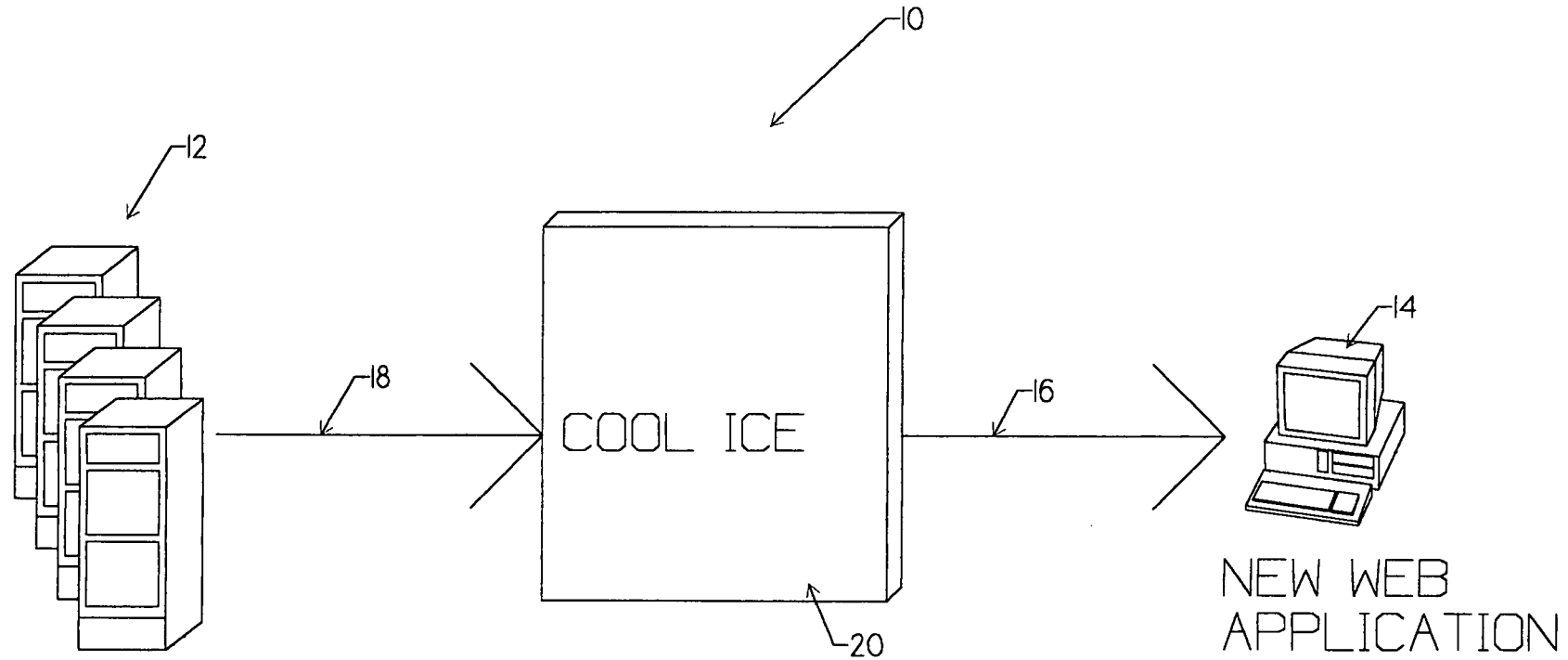


FIG. 1

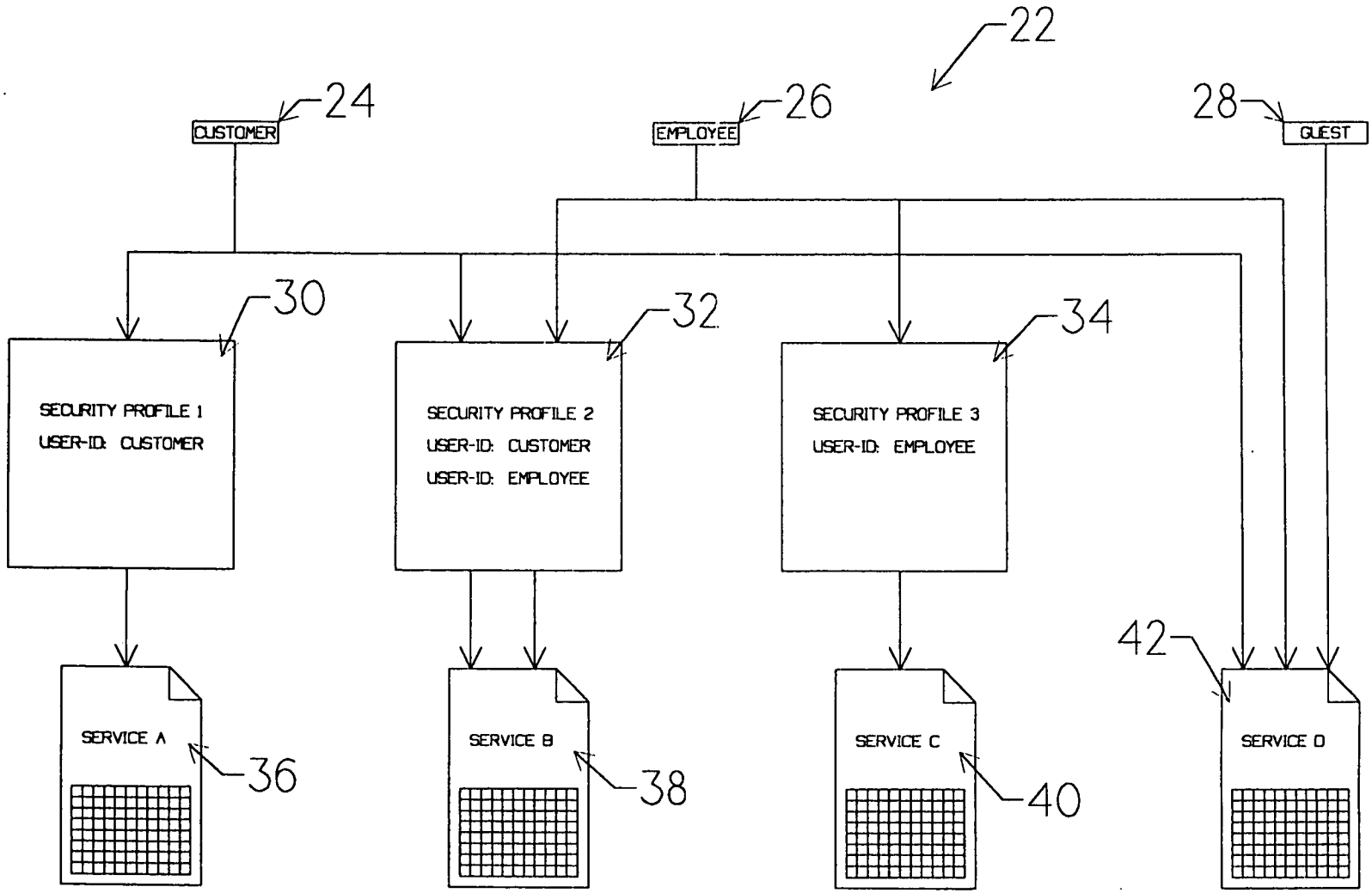

22
24
26
28
CUSTOMER
EMPLOYEE
GUEST
30
32
34
SECURITY PROFILE 1
USER-ID: CUSTOMER
SECURITY PROFILE 2
USER-ID: CUSTOMER
USER-ID: EMPLOYEE
SECURITY PROFILE 3
USER-ID: EMPLOYEE
42
SERVICE A
SERVICE B
SERVICE C
SERVICE D
36
38
40

FIG. 2

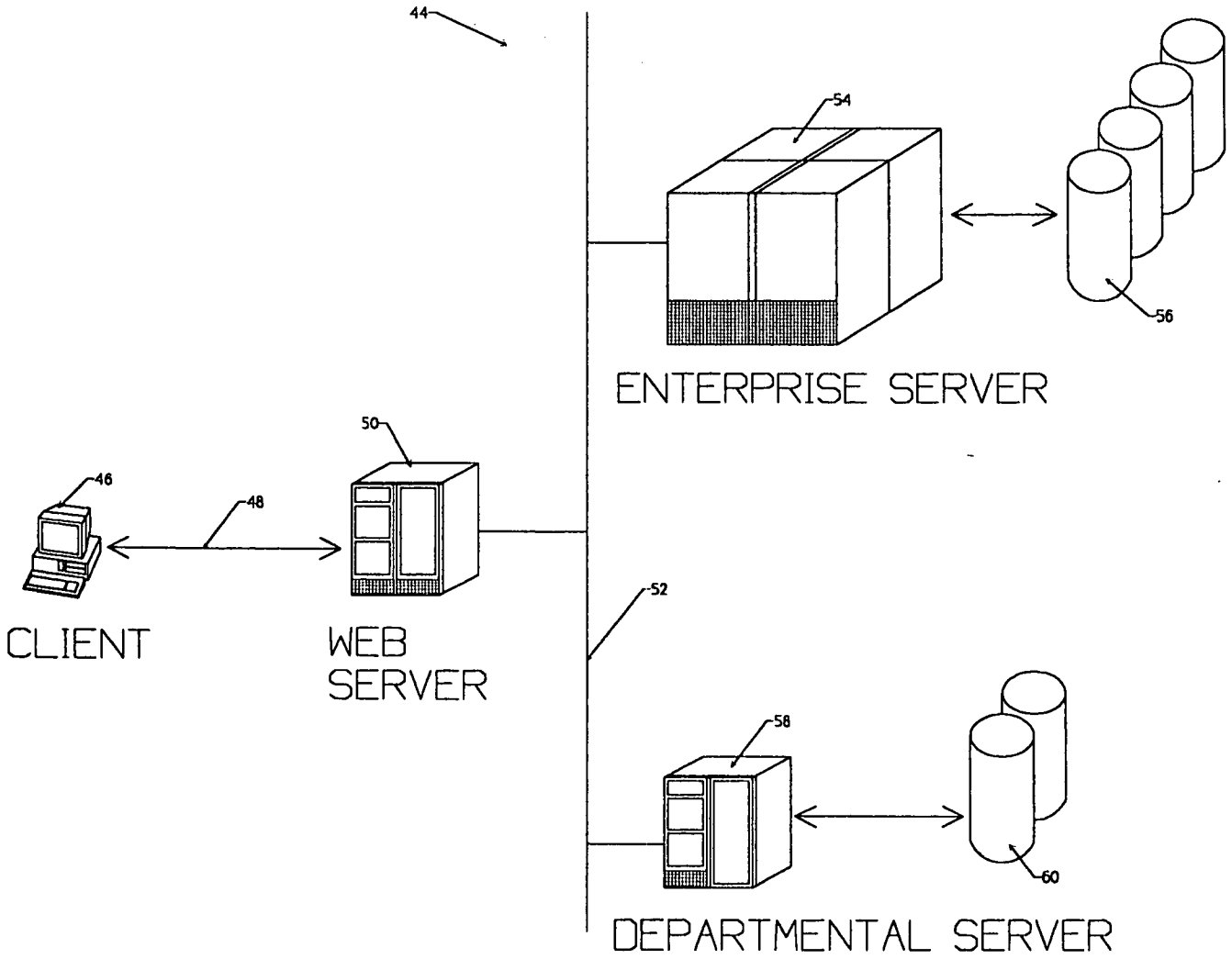

44
54
56
ENTERPRISE SERVER
50
46
48
CLIENT
WEB
SERVER
52
58
60
DEPARTMENTAL SERVER

FIG. 3

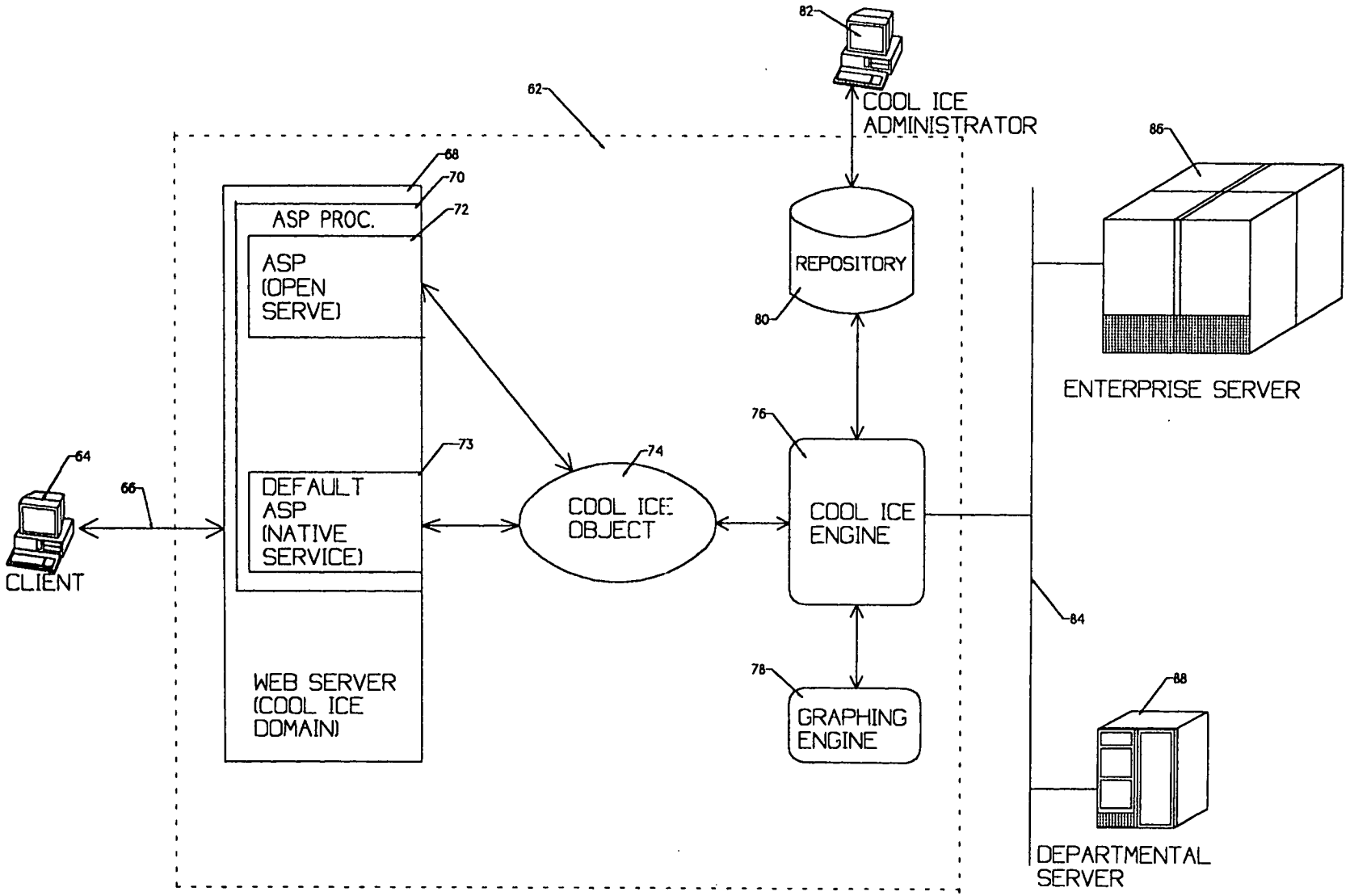


FIG. 4

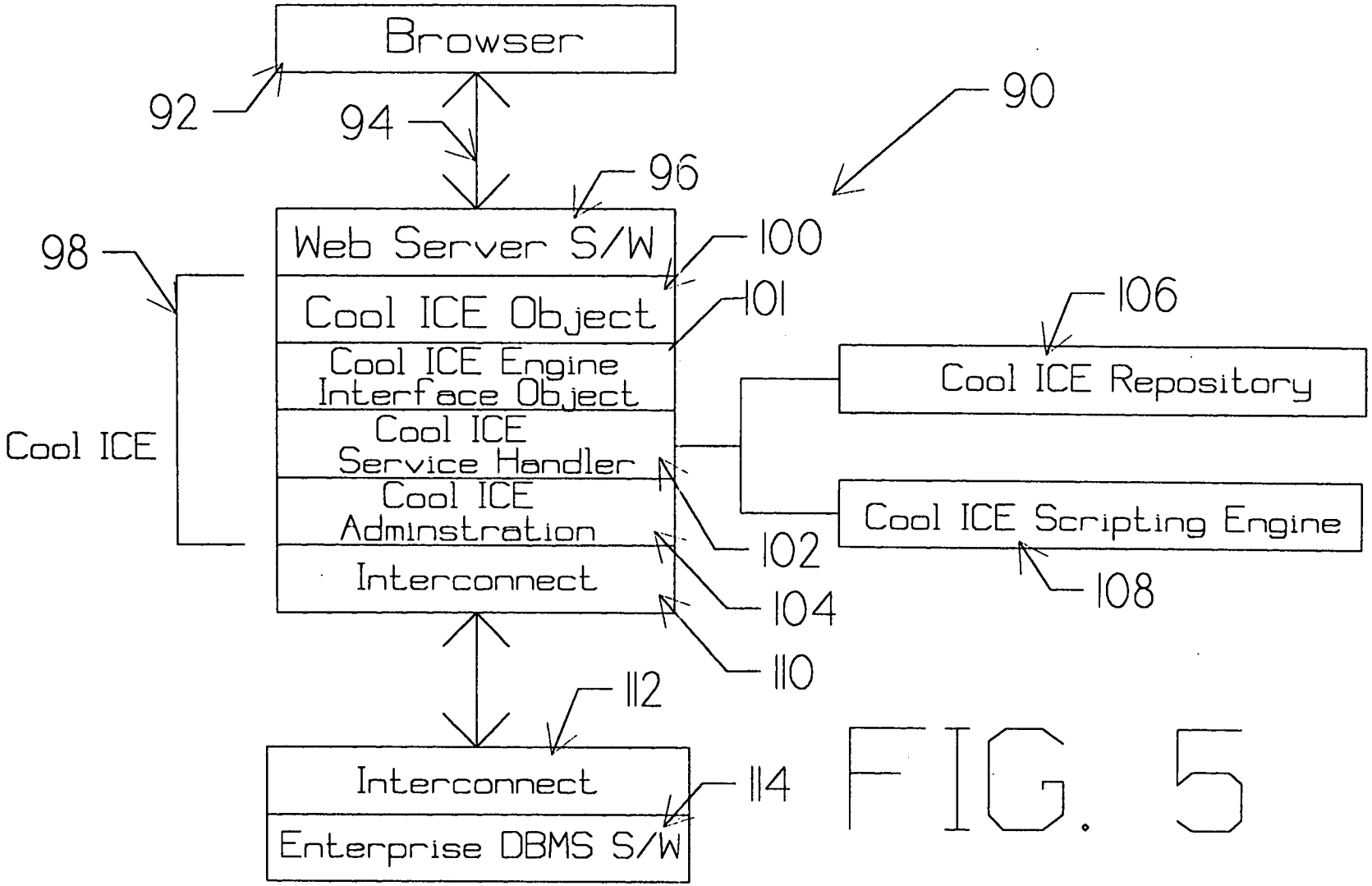

Browser
92
94
90
96
Web Server S/W
100
98
Cool ICE Object
101
106
Cool ICE Engine
Interface Object
Cool ICE Repository
Cool ICE
Cool ICE
Service Handler
Cool ICE
Adminstration
Cool ICE Scripting Engine
102
Interconnect
104
108
110
112
Interconnect
114
Enterprise DBMS S/W

FIG. 5

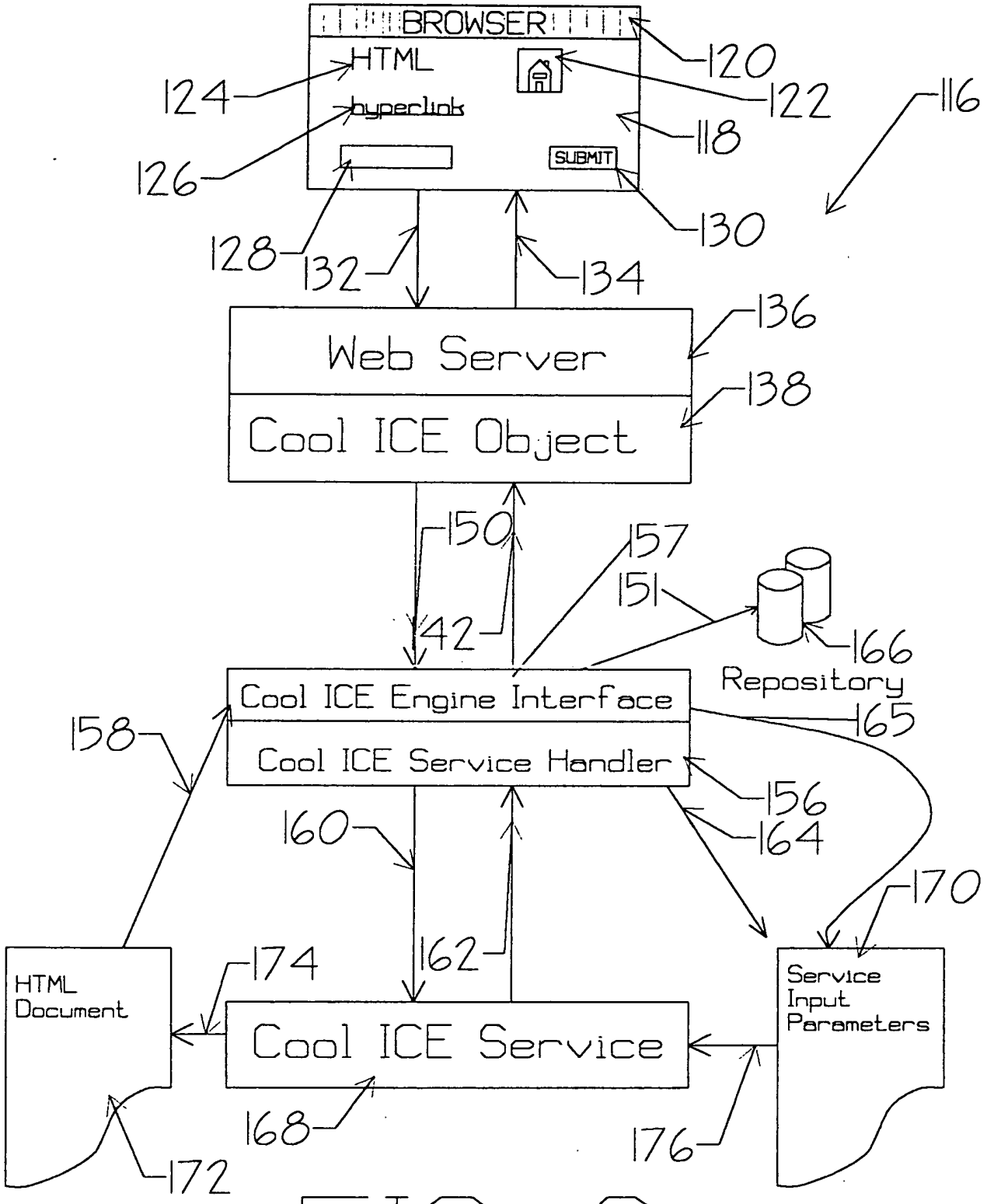

BROWSER
HTML
hyperlink
SUBMIT
120
122
124
126
116
118
128
130
132
134
Web Server
136
Cool ICE Object
138
150
157
151
42
166
Repository
Cool ICE Engine Interface
165
158
Cool ICE Service Handler
156
160
164
170
162
174
HTML
Document
Service
Input
Parameters
Cool ICE Service
168
176
172

FIG. 6

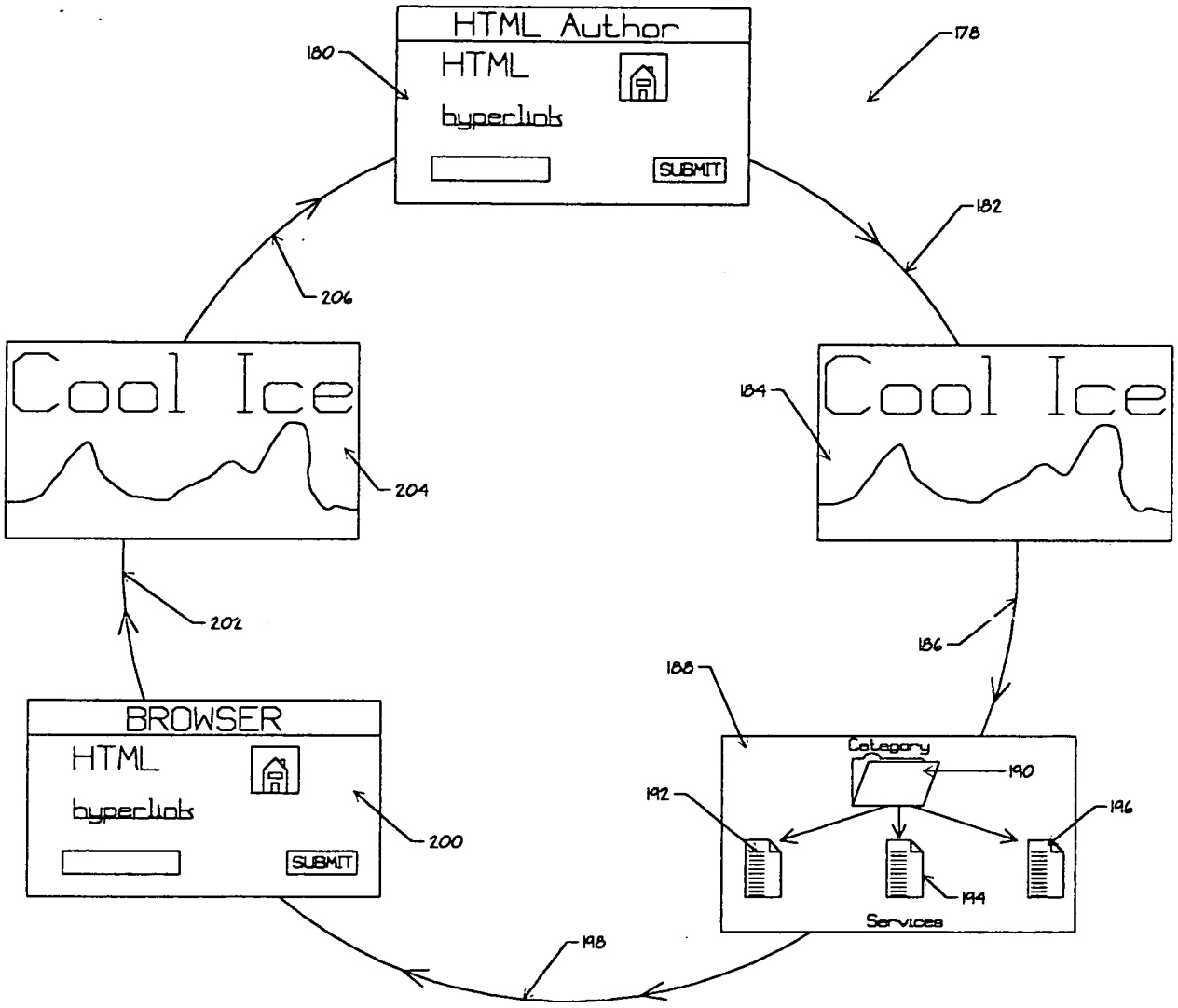

HTML Author
HTML
hyperlink
SUBMIT
178
180
182
206
Cool Ice
204
Cool Ice
184
202
186
188
BROWSER
HTML
hyperlink
SUBMIT
200
Category
190
192
196
194
Services
198

FIG. 7

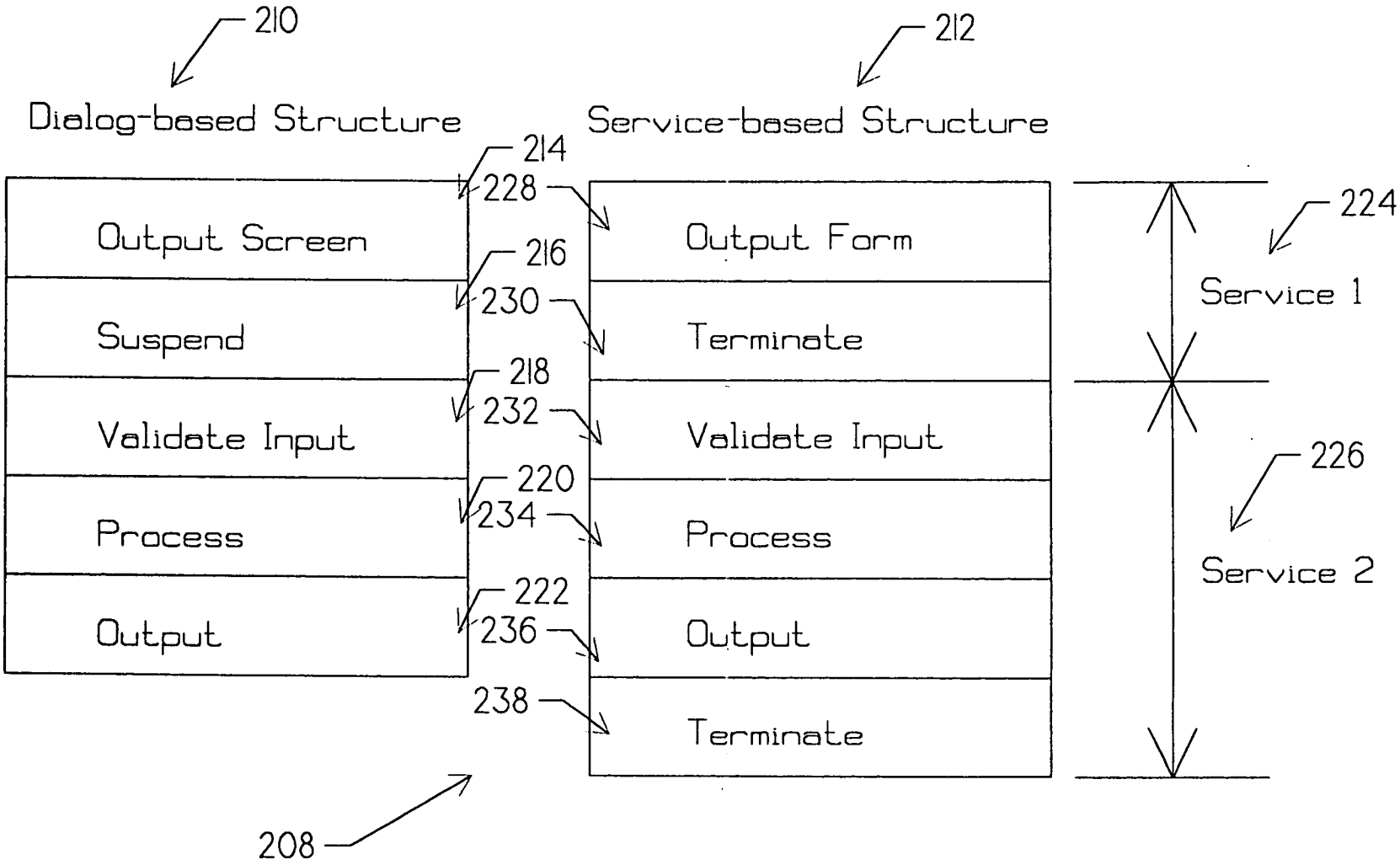

210
Dialog-based Structure
212
Service-based Structure
214
228
216
230
218
232
220
234
222
236
238
Output Screen
Suspend
Validate Input
Process
Output
Output Form
Terminate
Validate Input
Process
Output
Terminate
224
Service 1
226
Service 2
208

FIG. 8

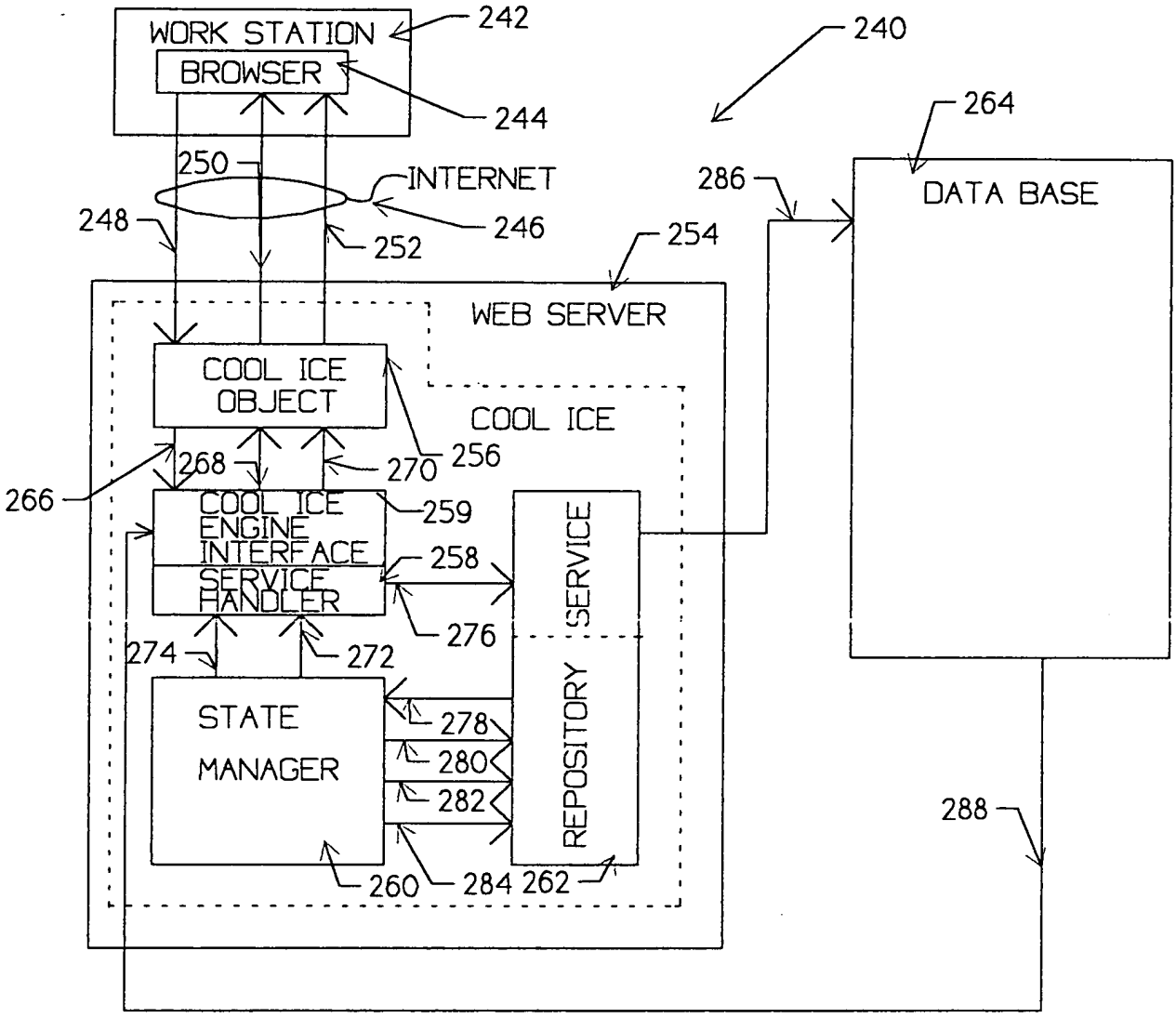

WORK STATION
242
BROWSER
244
240
264
250
INTERNET
286
DATA BASE
248
246
252
254
WEB SERVER
COOL ICE OBJECT
COOL ICE
256
268
270
266
COOL ICE ENGINE INTERFACE
259
SERVICE HANDLER
258
276
SERVICE
274
272
STATE MANAGER
278
280
282
REPOSITORY
288
260
284
262

FIG. 9

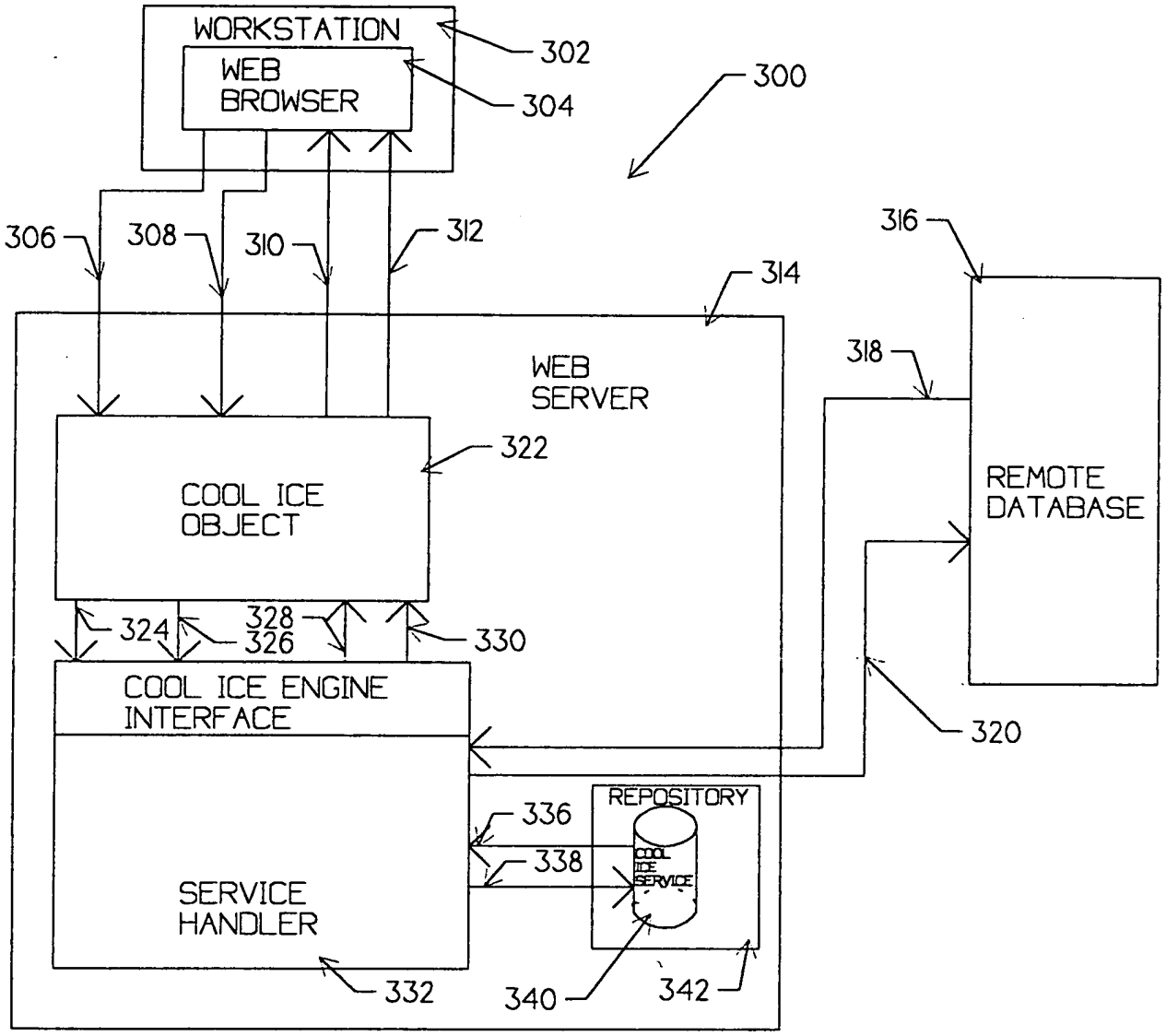
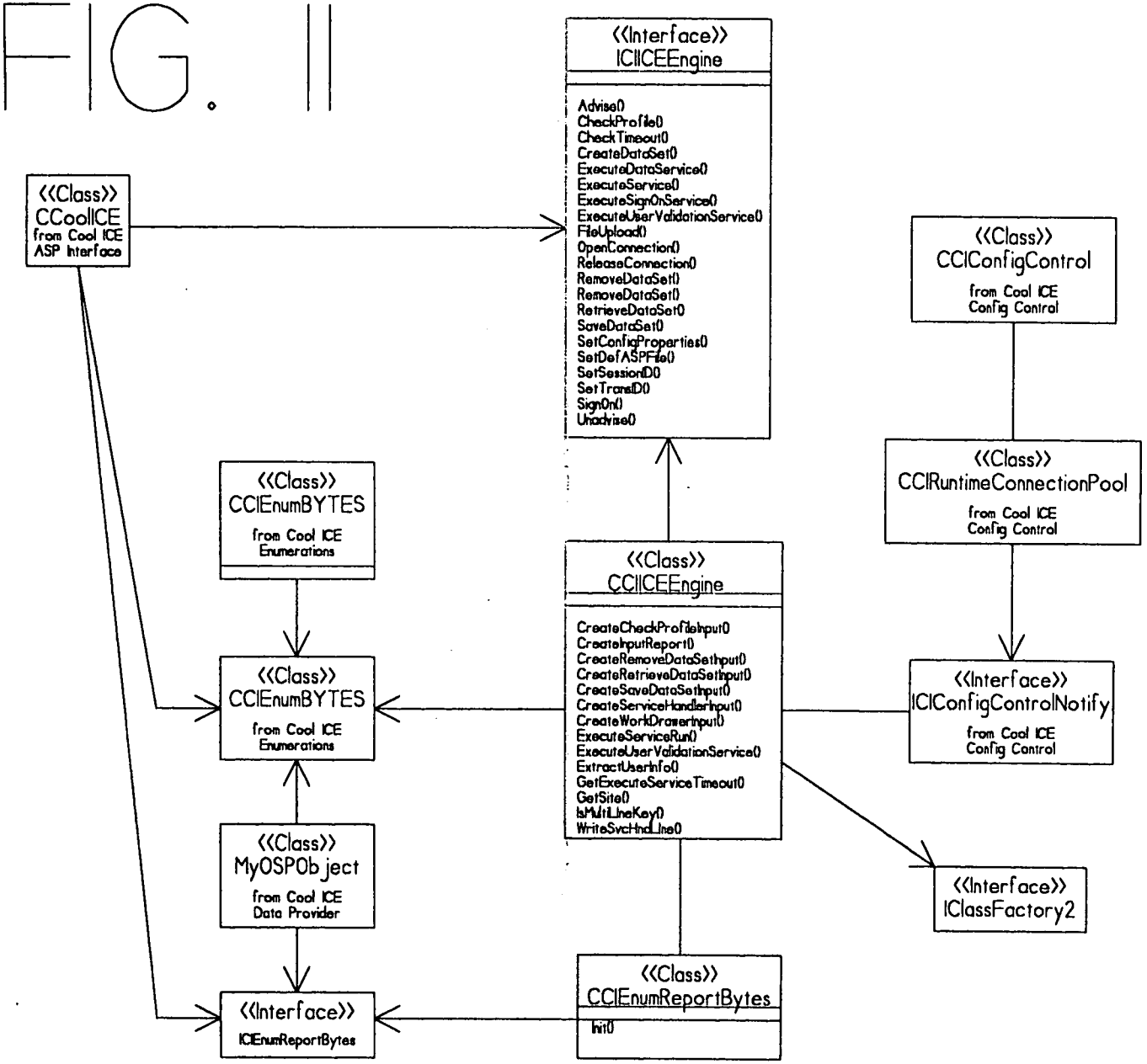

WORKSTATION
WEB BROWSER
302
304
300
306
308
310
312
316
314
318
WEB SERVER
322
COOL ICE OBJECT
REMOTE DATABASE
324
328
326
330
COOL ICE ENGINE INTERFACE
320
REPOSITORY
336
338
COOL ICE SERVICE
SERVICE HANDLER
332
340
342

FIG. 10

FIG. 11



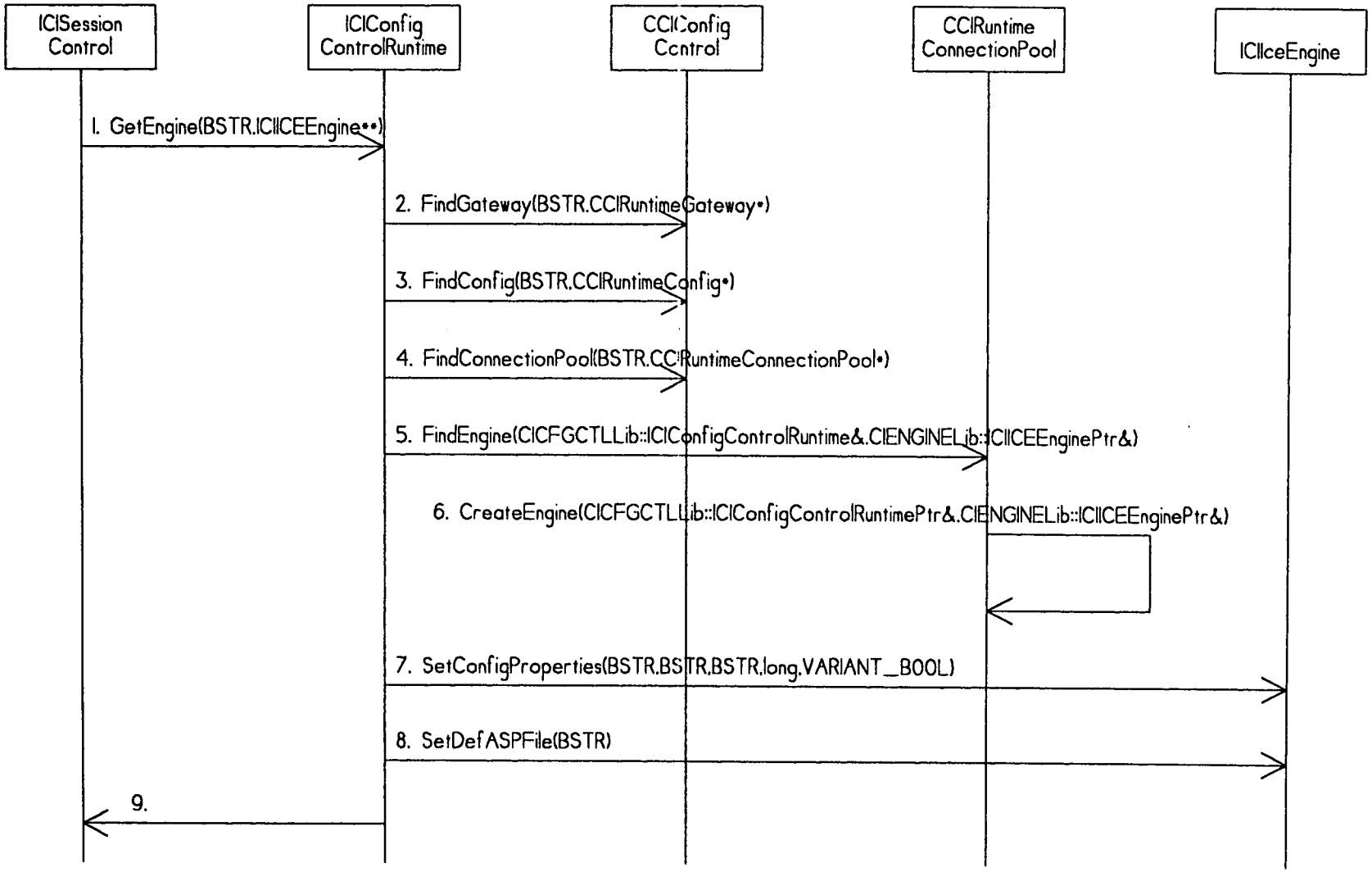

ICISession Control
ICIConfig ControlRuntime
CCIConfig Control
CCIRuntime ConnectionPool
ICIIceEngine
1. GetEngine(BSTR,ICIICEEngine**)
2. FindGateway(BSTR,CCIRuntimeGateway*)
3. FindConfig(BSTR,CCIRuntimeConfig*)
4. FindConnectionPool(BSTR,CCIRuntimeConnectionPool*)
5. FindEngine(CICFGCTLLib::ICIConfigControlRuntime&,CIENGINELib::ICIICEEnginePtr&)
6. CreateEngine(CICFGCTLLib::ICIConfigControlRuntimePtr&,CIENGINELib::ICIICEEnginePtr&)
7. SetConfigProperties(BSTR,BSTR,BSTR,long,VARIANT_BOOL)
8. SetDefASPFile(BSTR)
9.

FIG. 12

MESSAGE #	DESCRIPTION
1.	ICISessionControl will call ICIConfigControlRuntime::GetEngine()with the bstrGatewayName set to the name of a gateway.
2.	A CCIRuntimeGateway object whose name matches bstrGatewayName is necessary in order to determine the name of the CCIRuntimeConfig object to use.
3.	A CCIRuntimeConfig object whose name matches the m_bstrConfigName property of the CCIRuntimeGateway object found in the previous step. A CCIRuntimeConfig object is needed for two purposes: 1: To determine the name of the CCIRuntimeConnectionPool object. 2: To determine the properties that the ICIICEEngine will need.
4.	A CCIRuntimeConnectionPool object whose name matches the m_bstrConnectionPoolName property of the CCIRuntimeConfig object found in the previous step. A CCIRuntimeConnectionPool object is needed to determine which instance of a ICIICEEngine should be used for this request.
5.	This method will iterate the m_oEngines collection to find an ICIIEEngine that is currently not busy.
6.	CreateEngine() is called when a new ICIICEEngine needs to be created and added to the m_oEngines collection..
7.	The ICIICEEngine::SetProperties() method is called using the properties from the CCIRuntimeConfig object specified with oRuntimeConfig parameter of the CCIRuntimeConnectionPool::FIndEngine() method. These properties are provided to the ICIICEngine so that if the oRuntimeConfig object is updated. the ICIIEEngine::will be unaffected.
8.	The ICIICEEngine::SetDefASPFile method is called to dfine the default ASP file name. THe default ASP file name is a property of the CCIRuntimeGateway object.
9.	A ICIICEEngine interface pointer is returned.

FIG. 13

```
Dim ColumnInfos (3)
Dim Column1 (2)
Dim Column2 (2)
Dim Column3 (2)

' Specify the name and width for each column
Column1 (0) = "Product ID"
Column1 (1) = CInt (12)

Column2 (0) = "Pproduct Name"
Column2 (1) = CInt (30)

Column3 (0) = "Product Cost"
Column3 (1) = CInt (10)

ColumnInfos (0) = Column1
ColumnInfos (1) = Column2
ColumnInfos (2) = Column3

' Now create the data set
Dim rs

rs = objCoolICE.CreateDataSet ("MyDataSet",ColumnInfos)1
```

FIG. 14